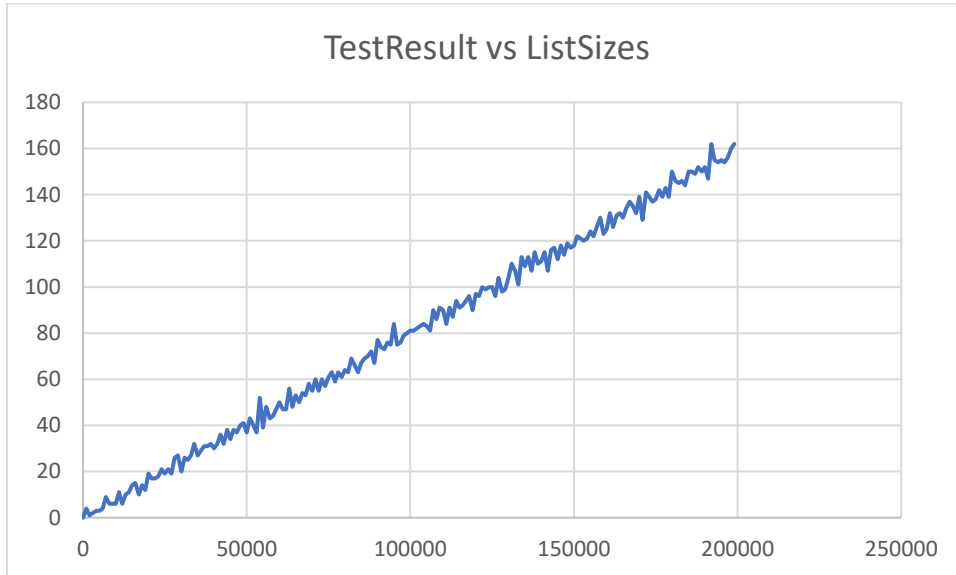
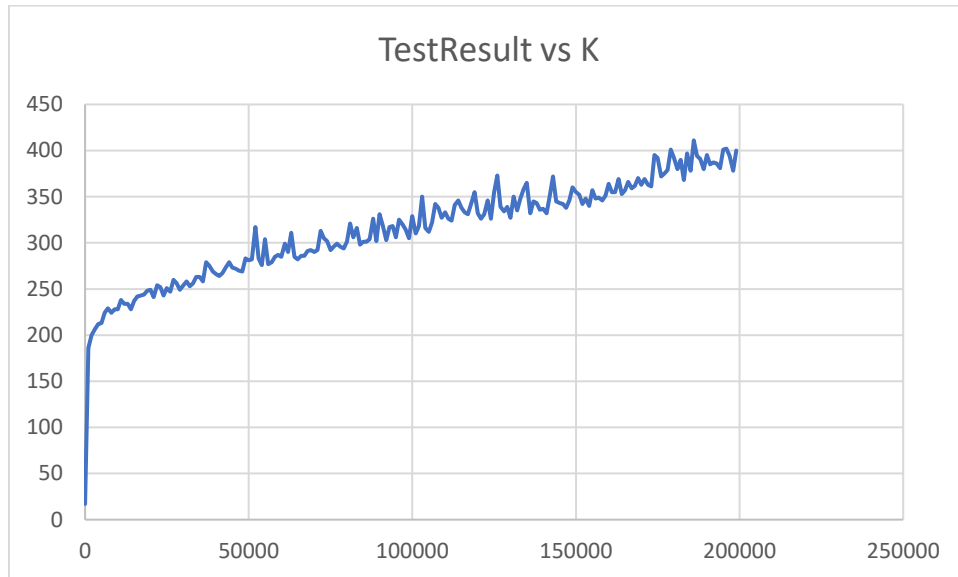


Experiment 1: Test to see how long it takes to make ten TopKSort at a time out of a list. List's length gets progressively longer by 1000 per step, starting from 0 to 200000. Then repeat that 5 times and find the AVG.



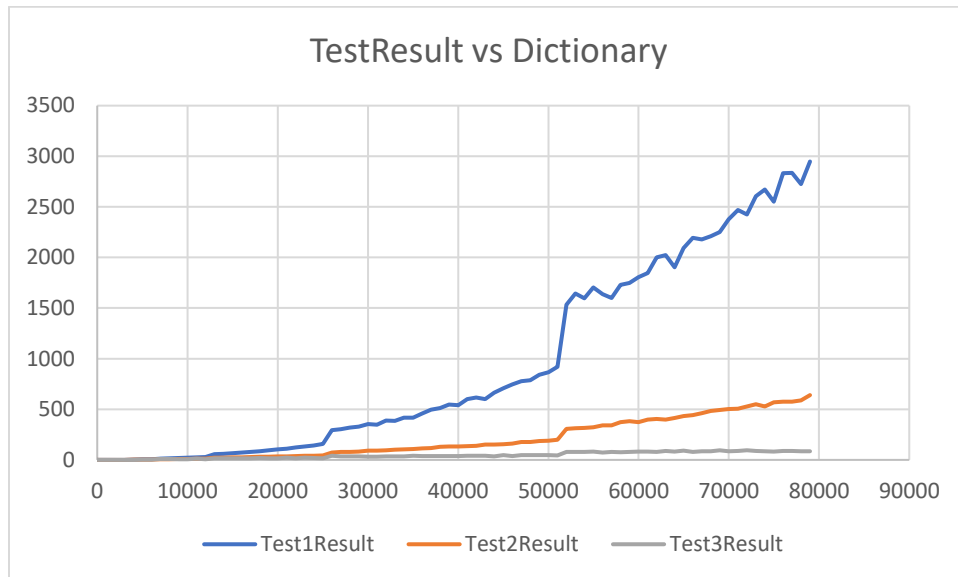
The result matched the original prediction. This linear graph happened because as the list gets longer, it will take longer to put them into a TopKSort.

Experiment 2: Test to see how long it takes to make ten TopKSort at a time out of a list. K's length gets progressively longer by 1000 per step, starting from 0 to 200000. Then repeat that 5 times and find the AVG.



The result matched the original prediction. This linear graph happened because as the amount of item K gets longer, it will take longer to get them into the TopKSort.

Experiment 3: Test putting stuffs inside an IDictionary array with three different hashing methods. Then repeat the experiment 3 times each, then find the AVG.



The result matched the original prediction. The 3 different time are expected as the least efficient hashing method required more rehash, which mean it will take more time as the lists get longer. The most efficient hashing method will not need as much rehash, which mean it will take less time as the list gets longer.